

B₁
507
1. (Twice Amended) A nickel-base alloy resistant to carburizing, oxidizing, nitriding and/or sulfidizing environments, consisting of, in weight percent, about 42 to 58 nickel, 21.5 to 28 chromium, about 12 to 18 cobalt, about 4.5 to 9.5 molybdenum, about 2 to 3.5 aluminum, about 0.05 to 2 titanium, at least one microalloying agent selected from the group consisting of about 0.005 to 0.1 yttrium and about 0.01 to 0.6 zirconium, about 0.01 to 0.15 carbon, about 0 to 0.01 boron, about 0 to 4 iron, about 0 to 0.4 manganese, about 0 to 1 silicon, about 0 to 1 hafnium, about 0 to 0.4 niobium, about 0 to 0.1 nitrogen, incidental impurities and deoxidizers.

B₂
507
D₂
7. (Once Amended) A nickel-base alloy resistant to carburizing, oxidizing, nitriding and/or sulfidizing environments, consisting of, in weight percent, about 43 to 57 nickel, 21.5 to 27 chromium, about 12.5 to 17.5 cobalt, about 4.5 to 9 molybdenum, about 2.25 to 3.5 aluminum, about 0.06 to 1.6 titanium, at least one microalloying agent selected from the group consisting of about 0.01 to 0.08 yttrium and about 0.01 to 0.5 zirconium, about 0.01 to 0.14 carbon, about 0.0001 to 0.01 boron, about 0 to 3 iron, about 0 to 0.4 manganese, about 0.01 to 1 silicon, about 0.01 to 0.8 hafnium, about 0.00001 to 0.08 nitrogen, incidental impurities and deoxidizers.

B₃
507
D₃
13. (Once Amended) A nickel-base alloy resistant to carburizing, oxidizing, nitriding and/or sulfidizing environment, consisting of, in weight percent, about 44 to 50 nickel, 22 to 27 chromium, about 13 to 17 cobalt, about 5 to 8.5 molybdenum, about 2.5 to 3.5 aluminum, about 0.08 to 1.2 titanium, about 0.01 to 0.07 yttrium, about 0.02 to 0.5 zirconium, about 0.01 to 0.12 carbon, about 0.001 to 0.009 boron, about 0.1 to 2.5 iron, about